

HansFest: Hans' perspective

Hans Zinnecker

(retired?)

Edinburgh, 5 Sept 2018

Hans, born 28 Feb 1950
in Bavaria/Germany

HansFest Button (gift to participants)



HansFest 2018: Sara, HZ, Andrea, Iris



My favorite movie (4 April 1983)



Hans and Ant (a funny limerick)

Which
They always made hay – nonny – nonny !

There was a young fellow called Hans
Liked looking at tropical plants
He sat down for a rest
But it was an ant's nest
So now he's got ants in his pants !

The other Hans Zinnecker (in Vienna)



Thanks

- Ant Whitworth (SOC chair)
 - Ken Rice (SOC co-chair, LOC chair)
 - SOC (Bo, Cathy, Hal, Ian, John, Mark, Steffi...)
 - Gillian Wright (ROE reception, library)
-
- Russell Cannon, S. Drapatz (PhD advisor), MSL
 - SOFIA team (Alfred, Bernhard, Eric, Erick, Hal)

astronomers that could not come...

Adams, Alves, Bodenheimer, Burkert, Burton, Garay, Genzel, Hasinger, Hall, Hartmann, Henning, Klessen, Kudritzki, Lada, **Larson**, Longair, Maeder, Meyer, Moneti, J. Ostriker, Pudritz, Ray, Shu, Stahler, Scoville, Silk, Steinmetz, Telesco, Weigelt, **Whitworth**, Wilking, Wootten, N. Wright, Wyrowski, Siyi Xu

Appenzeller, Bouvier, P. Brand, Chini, Comeron, Dent, Diehl, Duschl, deMink, deWit, Goodwin, Guesten, Eisloffel, Kaper, Kennicutt, Krumholz, Lee, Leinert, Menten, Myers, Oey, **Preibisch**, Sagar, Sana, Scalo, VanBeveren, Wambsganss

But my two daughters (Iris, Sara) were here Monday Sept3.

How I became a postdoc at ROE

Initial unsolicited visit to Mauna Kea, Hawaii 1982

handed my IMF PhD thesis to Gerry Gilmore/ROE

met Malcolm Longair at ESO in Garching 1982

had a 5 min discussion while waiting for his taxi

DFG/Royal Society fellowship (18 months), but

I stayed for almost 4 years (RD Cannon, mentor).

Several observing trips to UKIRT, Mauna Kea

Interaction with students Aspin, Burton, McCaughrean

Visitors: E. Becklin, S. Beckwith, M. Dycke, R. Boyle

Transformation from pure theorist to “observer”

Hans in time

- why me? (curiosity, persistence, often out of the box)
- small beginnings (place of birth, primary/high school)
- physics student at TU Munich, almost a soccer career
- early science (master's in QFT → astrophysics: SF/IMF)
- PhD 1981 (MPE, theorist in a FIR observational team)
- postdoc 1983 at ROE: theory → observations (IR arrays)
- Wuerzburg Univ (HWY: SF/DFG), X-ray centenary 1995
- AIP (1995-2010) star formation group (with Mark McC)
- SOFIA (2010-2016): from NIR (young stars) to FIR (ISM)
- retired in Chile ? Universidad Autonoma, Fondecyt grant

Hans 1960 (primary school photo)



Hans with high school dance class



My sportive past (soccer 1966-2008)
here: **body vs. brain** teams at **MPE Garching**, ca. 1980



↑ **Body vs. Brain.** In these football matches even MPE directors participated, either as referees or active players.

Beach-Volleyball in Holland 2017



Last supper with my father (Dec 1971)



My mother's 75th birthday 1997



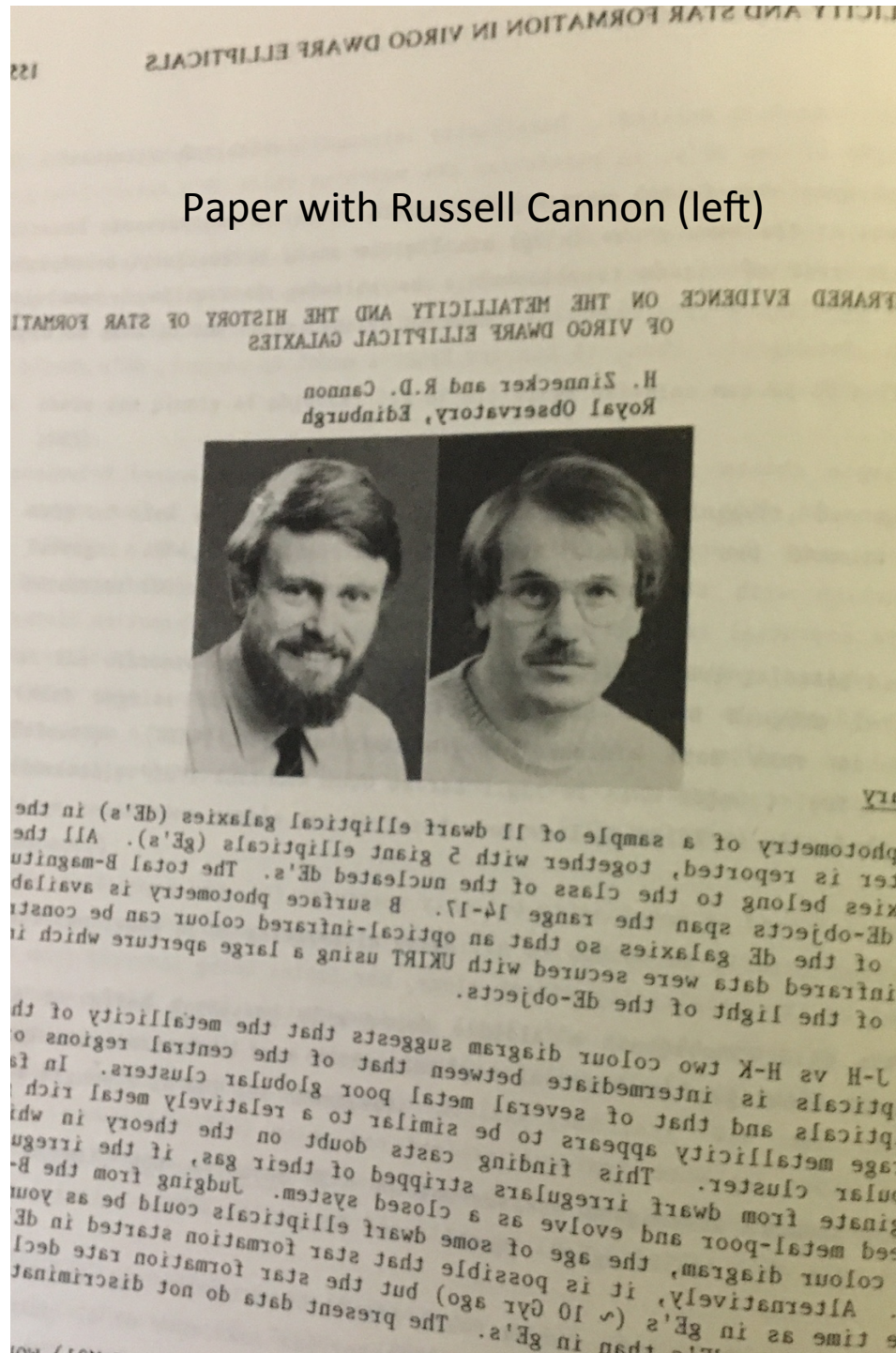
Hans with kilt at sister's wedding (1983)





Family ca 1992

Paper with Russell Cannon (left)



IMF in starburst clusters

THE IMF IN STARBURST CLUSTERS



HANS ZINNECKER¹

*Astrophysikalisches Institut Potsdam, An der Sternwarte 16
D-14482 Potsdam.*

Abstract

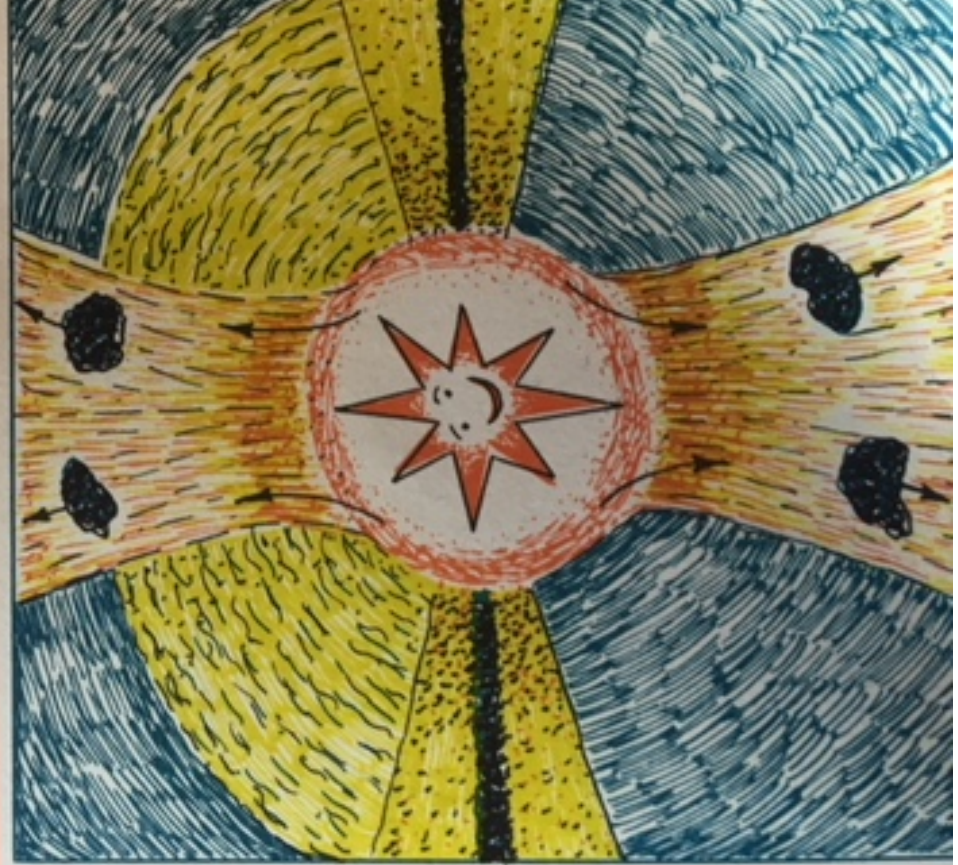
Images suggest that massive clusters of high-mass stars (starburst clusters) may be the primary sites of star formation in starburst galaxies at the present epoch. Thus the Initial Mass Function (IMF) in starburst clusters is especially whether it is truncated at low masses. I discuss this question in terms of two well-known starburst clusters (NGC 3603 and the LMC) and thereafter in terms of the Galaxy. Recent H and K band observations of the LMC and NGC 3603 in the Galaxy. Recent H and K band observations at ESO have shed new light on the low-mass stellar content of the starburst clusters. There is evidence that subsolar mass stars are present in NGC 3603 but is not cut off at the detection limit of about $2 M_{\odot}$.

... sites or unit cells of star formation ... and i

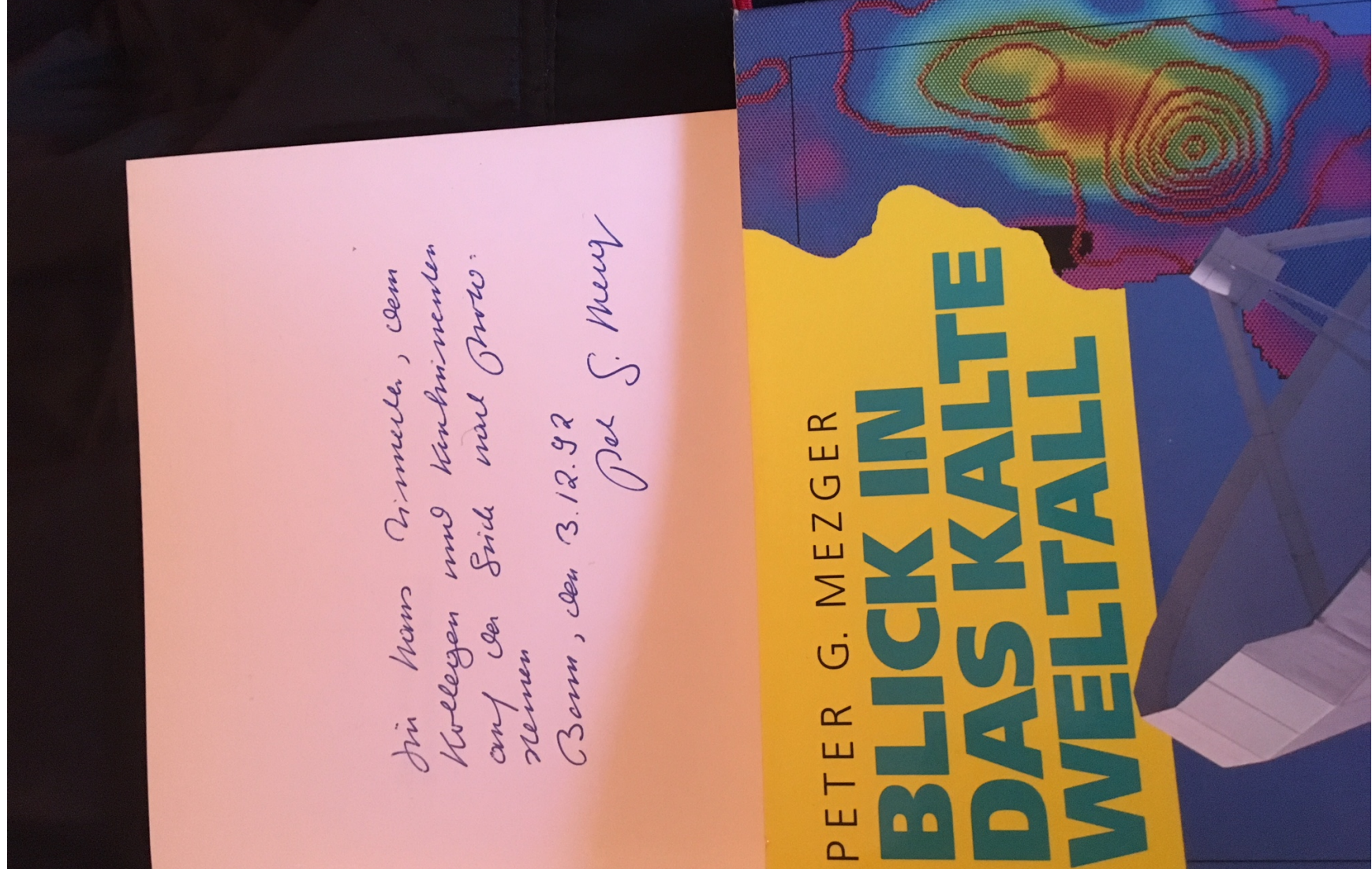
Protostars (in Russian)

В.Г. СУРДИН
С.А. ЛАМЗИН

ПРОТОЗВЕЗДЫ ГДЕ, КАК И ИЗ ЧЕГО ФОРМИРУЮТСЯ ЗВЕЗДЫ



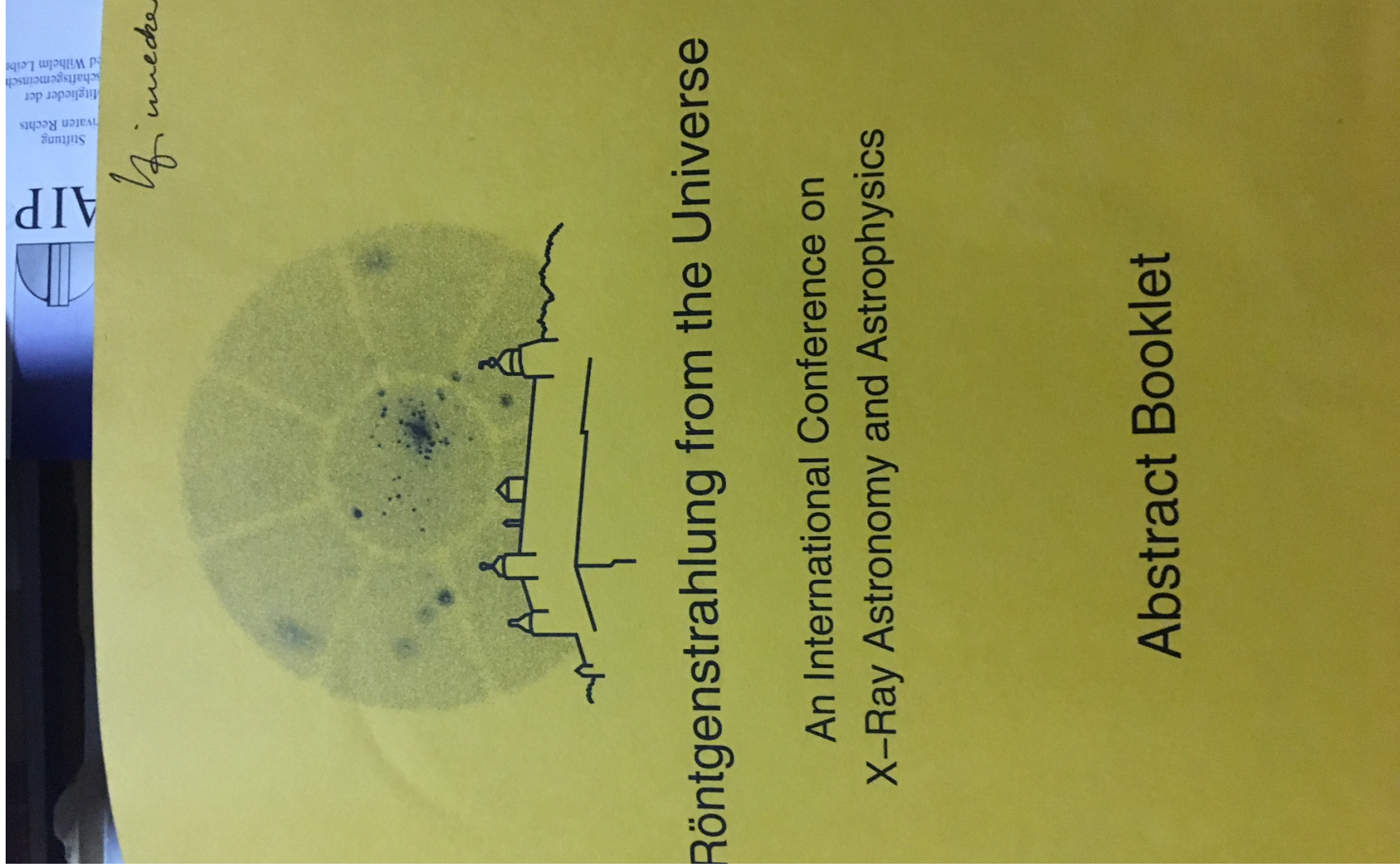
Peter Mezger's dedication 1992



Eric Becklin's SOFIA suggestion 1999

Hans,
For your
Future involvement
SOFIA
in BOA
26 Aug 1999

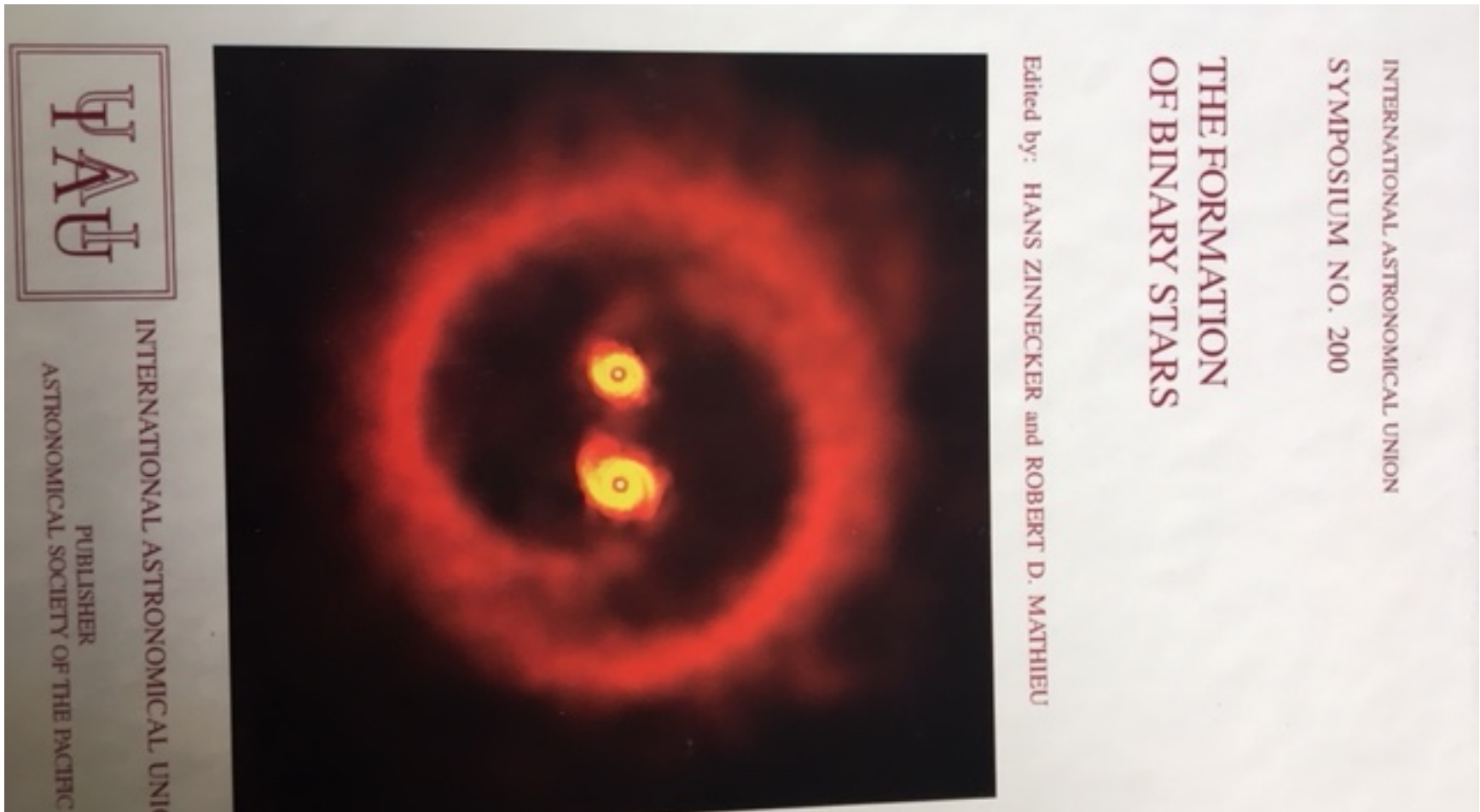
Wuerzburg 1990: Xray centenary



Hans in Potsdam (LBT ca. 1999)



Binaries IAU 200 in 2000 in Potsdam



Hans at IAU-GA in Prague 2006



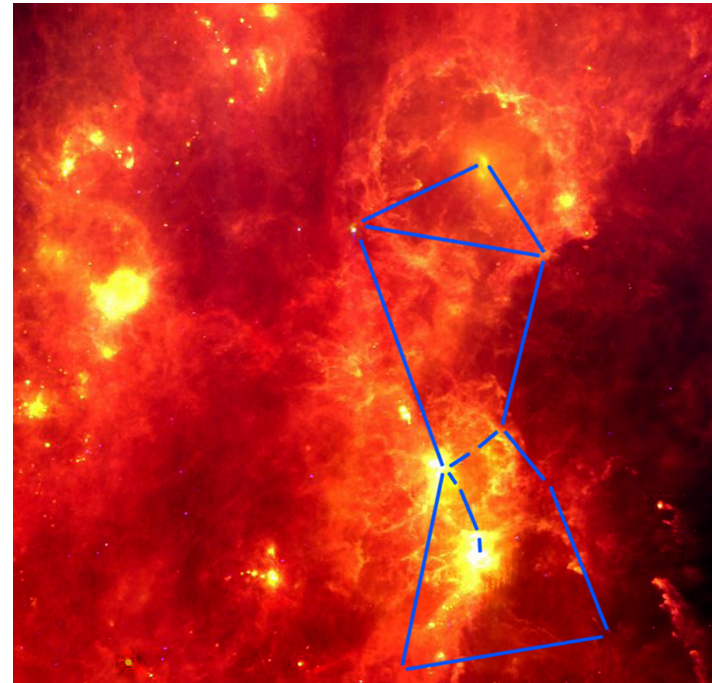
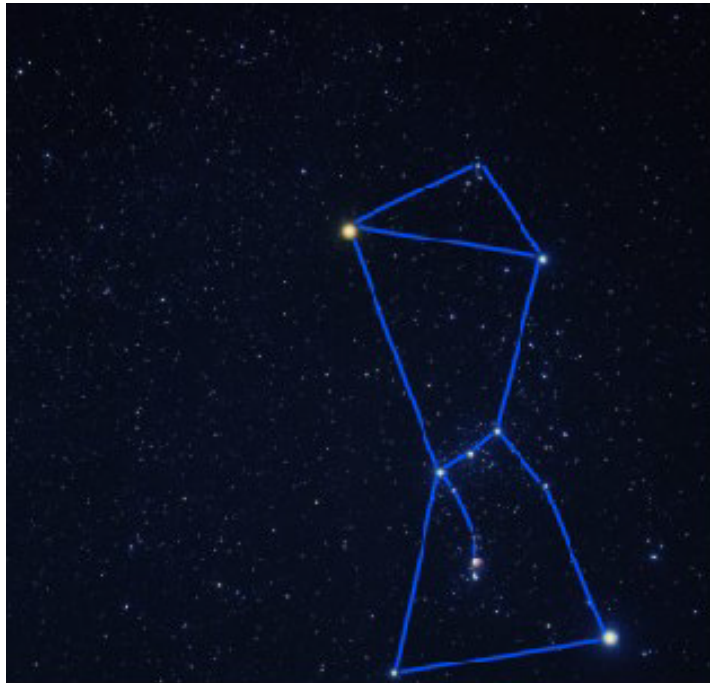
Hans with John Scalo





Hans at Copernicus tomb
in Frombork 2018 (Poland)

Constellation Orion in the optical and far-infrared



Constellation Orion

left: view in visible light

right: infrared space telescope view

Spaceman



Credit: Chris



On the SOFIA plane in flight



Palmdale, CA (2016)

Thank you all !



Airborne Infrared Astronomy with SOFIA: Astrochemistry and Astrophysics



Hans Zinnecker

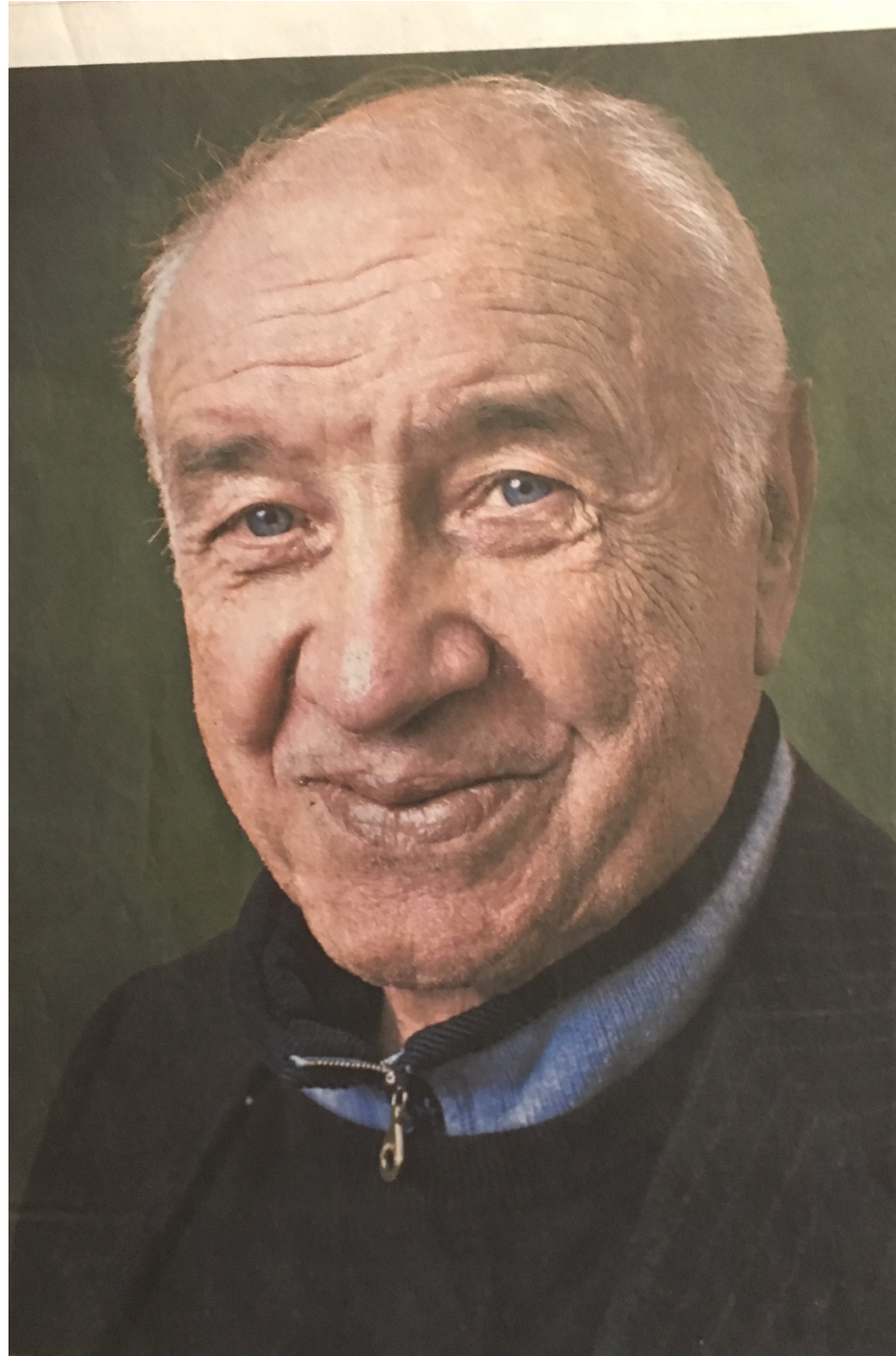
Deutsches SOFIA Institut
DSI Univ. Stuttgart & NASA Ames
(retired, advisor)
Universidad Autonoma de Chile
hzinnecker50@gmail.com

May 14, 2018
Wroclaw, Poland

Hans at Universidad Autonoma de Chile



Armin
Mueller-Stahl
(actor)



How Hans will
look at age 85
(his look-alike)

Our house (LaAurora #72) in Curacavi/ Chile



Scotland stories

- Local hero movie (day of arrival, Good Friday)
- Mike Hawkins (sailing from Greenock to Arran)
- Bo (walk to the end of the road, rest and be ...)
- The Scotsman newspaper, visit to St. Petersburg
- Malcolm Longair and the IAU-GA 1985 NewDelhi

- my favorite places in Scotland (worth visiting):
Banff, Glencoe, Inverewe Gardens, Iona off Skye

Andrea & Hans at ROE library (Sept 5)



PS. Key papers

- Draper Symp. 1982 (IMF, competitive accretion)
- IAU Coll. 1984 (binary statistics & star formation)
- A & A 1993 (pre-MS binaries; two obs. papers:
NTT 1 micron survey + speckle 2 micron survey)
- PPIII 1993 (pre-MS clusters K-band LF → IMF)
- Nature 1998 (HH212 molecular hydrogen jet)
- MNRAS 1998 (collisional origin of massive stars)
- ARAA 2007 (massive star formation review)

Post-HansFest Tour with RD Cannon: Schielhallion as seen from Loch Rannoch



Nevil Maskelyne plaque honoring his 1774 experiment to measure G

